JRC Dataset

Flood hazard map of the World - 500-year return period

Description:
The map depicts flood prone areas at global scale for flood events with 500-year return period. Resolution is 30 arcseconds (approx. 1km). Cell values indicate water depth (in m). NOTE: this dataset is based on JRC elaborations and is not an official flood hazard map (for details and limitations please refer to related publications).

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Keywords:
flood hazard, global, map

Related resources:
- Data access
  - GeoTiff image
    Flood hazard map of the World - 500-year return period

Publications
- The credibility challenge for global fluvial flood risk analysis
  Trigg M; Birch C; Neal J; Bates P; Smith A; Sampson C; Yamazaki D; Hirabayashi Y; Pappenberger F; Dutra E; Ward P; Winsemius H; Salamon P; Dottori F; Rudari R; Kappes M; Simpson A; Hadzilacos G; Fewtrell T. The credibility challenge for global fluvial flood risk analysis. ENVIRONMENTAL RESEARCH LETTERS 11 (9); 2016. p. 094014. JRC102849
  DOI:10.1088/1748-9326/11/9/094014

- Development and evaluation of a framework for global flood hazard mapping
  DOI:10.1016/j.advwatres.2016.05.002

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